VistA Scheduling Enhancements (VSE)

Technical Manual for
VS GUI Release 1.7.40.1

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Version 1.0

Department of Veterans Affairs

Revision History

Date	Version	Description	Author
4/27/2023	1.0	Final Version	Liberty ITS
4/5/2023	0.1	Baseline for VS GUI R1.7.40.1 and SD*5.3*842	Liberty ITS

Artifact Rationale

A Technical Manual is a required end user document for all Office of Information and Technology (OIT) software releases. The intended audience for this document is local Information Technology (IT) support, management, and development personnel for nationally released software. It provides enough technical information about the software for developers and technical personnel to operate and maintain the software with only minimal assistance from Product Support staff.

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1. Introduction

This Technical Manual provides Department of Veterans Affairs (VA) site managers with a technical description of the Veterans Health Information System and Technology Architecture (VistA) Scheduling (VS) Graphical User Interface (GUI) routines, files, menus, cross references, globals, and other necessary information required to effectively manage the system.

1.1. Purpose

The purpose of this Technical Manual is to provide technical information about the VS GUI for developers and technical personnel to operate and maintain the VS product in the Production environment. Please see the References section for more information on additional documentation.

1.2. System Overview

The VS GUI improves VA schedulers' workflow and user experience and supports VA's commitment to consistently deliver timely and quality access to care for Veterans.

The VS GUI has the following features:

- Microsoft (MS) Windows user interface
- Graphical patient, clinic, provider, and resource scheduling
- Tight linkage to VistA patient and clinic data
- Graphical resource and clinic availability scheduling
- Printing and What You See Is What You Get (WYSIWYG) print preview of clinic schedules
- Graphical patient check-in links to VistA/Patient Care Components Plus (PCC+) check-in
- Rescheduling/manipulating appointments using standard Windows cut/paste commands
- Scheduling of multiple appointments during a time block
- Retrieval and storage of clinic availability patterns
- Viewing multiple clinic schedules simultaneously
- Resource Management reporting for viewing metrics, related clinic appointments, and patient encounters in VistA

1.3. Document Orientation

The intended audience for this document is developers and technical personnel who operate and maintain the VS product in the Production environment.

1.3.1. Disclaimers

The following subsections detail VA software and document disclaimers.

1.3.1.1. Software Disclaimers

This software was developed at VA by employees of the Federal Government in the course of their official duties. Pursuant to title 17 Section 105 of the United States Code, this software is

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1.3.1.2. Document Disclaimer

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1.3.2. References

Documentation associated with VS GUI Release R1.7.40.1 can be found on the VA Software Document Library (VDL).

2. Implementation and Maintenance

The following subsections provide details regarding the implementation and maintenance of the VS GUI.

2.1. System Requirements

The system requirements for client development and maintenance are:

- MS Windows 7 Operating System (OS) or later
- Visual Studio 2017
- VistA instance with Remote Procedure Call (RPC) Broker for unit testing
- Kernel version 8.0
- VA FileMan 21.0 (and higher)
- VS Patch SD*5.3*842

2.1.1. Hardware Requirements

Client operation requires four (4) gigabytes (GB) of random-access memory (RAM).

2.1.2. Software Requirements

Client operation requires MS Windows 7 OS or later, and .NET version 4.7.1 or higher.

2.1.3. Database Requirements

The VS GUI uses FileMan version 22.2.

2.2.   System Setup and Configuration

The VistaSchedulingGUI.exe.config file is found in the application folder location, C:\ Program Files (x86)\VistA Scheduling GUI_x, where _x is not present in the Visual Studio development environment, but may be _P (Production Release), _T (Test Release), or _RC (Release Candidate) when VS is installed using one of the .msi files.

The config file is initialized during the installation process or by modifying the app.config file within the ClinSchd project in Visual Studio.

The config file can also be modified using a text editor such as Notepad or Notepad++.

There are two sections in the config file that may need to be configured. It is highly recommended that other sections of this file not be modified.

2.2.1.   The <appSettings> Section

The <appSettings> section contains several <add key . . . > options that can be modified.

- <add key="host" value="" />: This key value holds the address or Uniform Resource Locator (URL) of the host VistA instance.
- <add key="port" .value="" />: This key value holds the port number assigned to the VistA instance on the host machine.
- <add key="nspace" value="" />: This key value holds the Name Space assigned the VistA instance on the host machine.
- <add key="MaxPatientsToReturn" value="50" />: This key value adjusts the maximum number of patients returned by the Patient Search on the ribbon bar. The default\recommended value is 50.

> ⓘ   **NOTE:** At this time, any other <appSettings> key pairs are ignored.

2.2.2.   Command Line Parameters

The VS application allows for two command line parameters. These parameters can be added to the application shortcut as needed.

2.2.2.1.   The /trace Command Line Parameter

When the /trace command line parameter is present, VS turns on and initializes trace log functionality.

2.2.2.2.   The /AutoDump Trace Command Line Parameter

When the /AutoDumpTrace command line parameter is present, VS attempts to save the current trace log to a file when exiting the application, or when the application terminates due to an error. The new location of the saved trace log file is:

- C:\Users\[UserID]\AppData\Local\VA VistA Scheduler.

Each successive trace log dump overwrites previous trace log dumps.

The /trace command line parameter is required for the /AutoDumpTrace functionality to work.

2.2.3. The Application Trace File

The application trace file is generated by the VS application. Successive VS executions will be recorded in the same trace file. Some error information may be present in the trace log file if VS crashes. The trace log file is always located in the end user's AppData\Local folder as:

- C:\Users\[UserID]\AppData\Local \VA VistA Scheduler\VSETraceLog.log and
- VSETraceLog – YYYYMMDD_hhmmss.xml.

3. Files

Table 1 lists the file names and numbers used by the VS GUI.

Table 1: File Names and Numbers

File Number	File Name
44	HOSPITAL LOCATION
403.5	RECALL REMINDERS
403.56	RECALL REMINDERS REMOVED
409.2	CANCELLATION REASONS
409.3	SD WAIT LIST
409.81	SDEC APPLICATION
409.822	SDEC ACCESS GROUP
409.823	SDEC ACCESS TYPE
409.824	SDEC ACCESS GROUP TYPE
409.831	SDEC RESOURCE
409.832	SDEC RESOURCE GROUP
409.833	SDEC RESOURCE USER
409.834	SDEC ADDITIONAL RESOURCE
409.84	SDEC APPOINTMENT
409.842	SDEC CHECK-IN STEP STATUS
409.845	SDEC PREFERENCES AND SPECIAL NEEDS
409.85	SDEC APPT REQUEST
409.853	SDEC DISPOSITION REASON
409.86	SDEC CONTACT
409.87	SDEC CONSULT PID HISTORY
409.88	SDEC CANCELLATION COMMENT
409.89	SDEC STOP CODE
409.93	SDES ERROR CODES
409.97	SD AUDIT STATISTICS
409.98	SDEC SETTINGS

4.   Routines

Table 2 lists the routines associated with the VS GUI, with their descriptions.

Table 2: Routines

Routine	Description
SD53699	SPFO/DMR SCHEDULING ENCHANCEMENTS VSE
SD628PST	SD*5.3*628 Post Install Routine
SD694PO	ALB/WTC/ZEB - VISTA SCHEDULING RPCS post install for patch SD*5.3*694
SDAM2	ALB/MJK - Appt Mgt (cont.)
SDAMUTDT	Scheduling Encapsulation Utilities
SDAMWI1	ALB/MJK - Walk-Ins (cont.)
SDAPIAP	ALB/MJK - Outpatient Application Programming Interface (API)/Appointments
SDB	FLA/RF,BSN/GRR - SET UP A CLINIC
SDB1	ALB/GRR - SET UP A CLINIC
SDC	MAN/GRR,ALB/LDB - CANCEL A CLINIC'S AVAILABILITY
SDCED	VSE ENCOUNTER XREF
SDCED1	VSE ENCOUNTER XREF
SDCED2	VSE ENCOUNTER XREF
SDCNP0	ALB/LDB,ANU - CANCEL APPT. FOR A PATIENT
SDCNSLT	ALB/HAG - LINK APPOINTMENTS TO CONSULTS
SDCODEL	ALB/RMO,ESW - Delete - Check Out
SDEC	ALB/SAT - VISTA SCHEDULING RPCs
SDEC01	ALB/SAT - VISTA SCHEDULING RPCs
SDEC01A	ALB/SAT - VISTA SCHEDULING RPCs
SDEC01B	ALB/SAT - VISTA SCHEDULING RPCs
SDEC01C	ALB/SAT - VISTA SCHEDULING RPCs
SDEC02	ALB/SAT - VISTA SCHEDULING RPCs
SDEC03	ALB/SAT - VISTA SCHEDULING RPCs
SDEC04	ALB/SAT - VISTA SCHEDULING RPCs
SDEC05	ALB/SAT - VISTA SCHEDULING RPCs
SDEC06	ALB/SAT - VISTA SCHEDULING RPCs
SDEC07	ALB/SAT - VISTA SCHEDULING RPCs
SDEC07PID	VISTA SCHEDULING
SDEC07A	ALB/SAT - VISTA SCHEDULING RPCs
SDEC07B	ALB/SAT - VISTA SCHEDULING RPCs
SDEC07C	ALB/SAT - VISTA SCHEDULING RPCs added for patch SD*5.3*694
SDEC08	ALB/SAT - VISTA SCHEDULING RPCs
SDEC08A	ALB/SAT - VISTA SCHEDULING RPCs added for SD*5.3*745 (split routine)
SDEC09	ALB/SAT - VISTA SCHEDULING RPCs

Routine	Description
SDEC1	ALB/SAT - VISTA SCHEDULING RPCs
SDEC12	ALB/SAT - VISTA SCHEDULING RPCs
SDEC13	ALB/SAT - VISTA SCHEDULING RPCs
SDEC14	ALB/SAT - VISTA SCHEDULING RPCs
SDEC15	ALB/SAT - VISTA SCHEDULING RPCs
SDEC16	ALB/SAT - VISTA SCHEDULING RPCs
SDEC17	ALB/SAT - VISTA SCHEDULING RPCs
SDEC18	ALB/SAT - VISTA SCHEDULING RPCs
SDEC19	ALB/SAT - VISTA SCHEDULING RPCs
SDEC20	ALB/SAT - VISTA SCHEDULING RPCs
SDEC21	ALB/SAT - VISTA SCHEDULING RPCs
SDEC22	ALB/SAT - VISTA SCHEDULING RPCs
SDEC23	ALB/SAT - VISTA SCHEDULING RPCs
SDEC24	ALB/SAT - VISTA SCHEDULING RPCs
SDEC25	ALB/SAT - VISTA SCHEDULING RPCs
SDEC25A	ALB/SAT - VISTA SCHEDULING RPCs
SDEC25B	ALB/SAT - VISTA SCHEDULING RPCs
SDEC26	ALB/SAT - VISTA SCHEDULING RPCs
SDEC27	ALB/SAT - VISTA SCHEDULING RPCs
SDEC28	ALB/SAT - VISTA SCHEDULING RPCs
SDEC28L	VISTA SCHEDULING GET PAT DEMOG RPC
SDEC29	ALB/SAT - VISTA SCHEDULING RPCs
SDEC30	ALB/SAT - VISTA SCHEDULING RPCs
SDEC31	ALB/SAT - VISTA SCHEDULING RPCs
SDEC32	ALB/SAT - VISTA SCHEDULING RPCs
SDEC33	ALB/SAT - VISTA SCHEDULING RPCs
SDEC34	ALB/SAT - VISTA SCHEDULING RPCs
SDEC35	ALB/SAT - VISTA SCHEDULING RPCs
SDEC36	ALB/SAT - VISTA SCHEDULING RPCs
SDEC37	ALB/SAT - VISTA SCHEDULING RPCs
SDEC38	ALB/SAT - VISTA SCHEDULING RPCs
SDEC40	ALB/SAT - VISTA SCHEDULING RPCs
SDEC44	ALB/SAT - VISTA SCHEDULING RPCs
SDEC45	ALB/SAT - VISTA SCHEDULING RPCs
SDEC46	ALB/SAT - VISTA SCHEDULING RPCs
SDEC47	ALB/SAT - VISTA SCHEDULING RPCs
SDEC48	ALB/SAT - VISTA SCHEDULING RPCs
SDEC49	ALB/SAT - VISTA SCHEDULING RPCs
SDEC50	ALB/SAT - VISTA SCHEDULING RPCs

Routine	Description
SDEC51	ALB/SAT - VISTA SCHEDULING RPCs
SDEC51A	ALB/SAT – VISTA SCHEDULING RPCs
SDEC51B	ALB/SAT – VISTA SCHEDULING RPCs
SDEC52	ALB/SAT - VISTA SCHEDULING RPCs
SDEC52A	ALB/SAT - VISTA SCHEDULING RPCs
SDEC52B	ALB/SAT - VISTA SCHEDULING RPCs
SDEC52C	ALB-SAT – VISTA SCHEDULING RPCs
SDEC52CJSON	ALB/SAT – VISTA SCHEDULING RPCs
SDEC52CRMVJSON	ALB/BLB,LEG - VIA RECALL REMINDER REMOVE FILE (#403.56)
SDEC53	ALB/SAT - VISTA SCHEDULING RPCs
SDEC54	ALB/SAT - VISTA SCHEDULING RPCs
SDEC54A	ALB/SAT - VISTA SCHEDULING RPCs
SDEC55	ALB/SAT - VISTA SCHEDULING RPCs
SDEC55A	ALB/SAT - VISTA SCHEDULING RPCs
SDEC56	ALB/SAT - VISTA SCHEDULING RPCs
SDEC57	ALB/SAT - VISTA SCHEDULING RPCs modified for patch SD*5.3*694
SDEC57A	ALB/SAT - VISTA SCHEDULING RPCs
SDEC63	SPFO/DMR VSE ROUTINE CLINIC GROUP LOOKUP
SDEC658	ALB/SAT VISTA SCHEDULING PRE/POST
SDEC658A	ALB/SAT/JSM - VISTA SCHEDULING PRE/POST (CONTINUED)
SDEC658B	ALB/SAT/JSM - VISTA SCHEDULING PRE/POST (CONTINUED)
SDECALV	ALB/SAT - VISTA SCHEDULING RPCs
SDECALV1	ALB/SAT - VISTA SCHEDULING RPCs
SDECALVR	ALB/SAT - VISTA SCHEDULING RPCs
SDECAPI	ALB/SAT - VISTA SCHEDULING RPCs
SDECAPI4	ALB/SAT - VISTA SCHEDULING RPCs
SDECAR	ALB/SAT - VISTA SCHEDULING RPCs
SDECAR1	ALB/SAT - VISTA SCHEDULING RPCs
SDECAR1A	ALB/SAT - VISTA SCHEDULING RPCs
SDECAR2	ALB/SAT - VISTA SCHEDULING RPCs
SDECAR3	ALB/SAT/JSM – VISTA SCHEDULING RPCs
SDECAR4	ALB/SAT/JSM – VISTA SCHEDULING RPCs
SDECAUD	ALB/WTC - VISTA SCHEDULING - Audit Statistics Compiler
SDECCAP	ALB/SAT - VISTA SCHEDULING RPCs
SDECCLN	ALB/RBD - VISTA SCHEDULING CLEANUP UTILITY
SDECCON	SCHEDULING ENHANCEMENTS VSE CONTACT API
SDECCONSJSON	SCHEDULING ENHANCEMENTS VSE CONTACT API
SDECDATE	ALB/STA - VISTA SCHEDULING RPCs added for patch SD*5.3*694
SDECDEM	ALB/SAT – VISTA SCHEDULING RPCs

Routine	Description
SDECDEV	ALB/SAT - VISTA SCHEDULING RPCs
SDECDIQ1	ALB/SAT - VISTA SCHEDULING RPCs
SDECDIS	ALB/SAT - VISTA SCHEDULING RPCs
SDECDUZ	Return DUZ data
SDECEKL	ALB/SAT - VISTA SCHEDULING RPCs
SDECELG	SPFO/DMR SCHEDULING ENHANCEMENTS VSE API
SDECEP	SPFO/DMR SCHEDULING ENHANCEMENTS VSE EP API
SDECEPT	SPFO/RT SCHEDULING ENHANCEMENTS VSE EP API
SDECERR	ALB/SAT - VISTA SCHEDULING RPCs
SDECF	ALB/SAT - VISTA SCHEDULING RPCs
SDECF2	ALB/SAT - VISTA SCHEDULING RPCs
SDECFUNC	ALB/SAT - VISTA SCHEDULING RPCs
SDECGMR	ALB/SAT - VISTA SCHEDULING RPCs
SDECI2	ALB/SAT - VISTA SCHEDULING RELEASE 2 PRE/POST INSTALL
SDECIDX	ALB/SAT - VISTA SCHEDULING RPCs
SDECINI1	ALB/SAT - VISTA SCHEDULING PRE/POST INSTALL
SDECINI2	ALB/SAT - VISTA SCHEDULING PRE/POST INSTALL
SDECINIT	ALB/SAT - VISTA SCHEDULING PRE/POST INSTALL
SDECLK	ALB/SAT - VISTA SCHEDULING RPCs
SDECLOC	ALB/SAT – VISTA SCHEDULING RPCs
SDECNEW	ALB/SAT - VISTA SCHEDULING RPCs
SDECPAT	ALB/SAT - VISTA SCHEDULING RPCs
SDECPAT1	ALB/SAT - VISTA SCHEDULING RPCs
SDECPAT2	ALB/SAT - VISTA SCHEDULING RPCs
SDECPAT3	ALB/SAT - VISTA SCHEDULING RPCs
SDECPAT4	ALB/SAT - VISTA SCHEDULING RPCs
SDECPRVSRCHJSON	ALB/ANU - Get Providers based on Search String
SDECPT	ALB/SAT - VISTA SCHEDULING RPCs
SDECPTCX	ALB/SAT - VISTA SCHEDULING RPCs
SDECPTPC	ALB/SAT - VISTA SCHEDULING RPCs
SDECPTPL	ALB/SAT - VISTA SCHEDULING RPCs
SDECRECREQ	ALB/SAT/JSM,WTC,LAB,LEG - VISTA SCHEDULING RPCS (SOURCE FROM SDEC08)
SDECRMG	ALB/SAT - VISTA SCHEDULING RPCs
SDECRMG1	ALB/SAT - VISTA SCHEDULING RPCs
SDECRMG2	ALB/SAT - VISTA SCHEDULING RPCs
SDECRMGP	ALB/JSM - VISTA SCHEDULING RPCs
SDECRPC	ALB/SAT - VISTA SCHEDULING RPCs

Routine	Description
SDECRPT	ALB/BNT - SCHEDULING ENHANCEMENTS CLINIC REPORTS
SDECRPT1	ALB/JSM - SCHEDULING ENHANCEMENTS CLINIC REPORTS
SDECRT	ALB/SAT - VISTA SCHEDULING RPCs
SDECRT0	ALB/SAT - VISTA SCHEDULING RPCs
SDECRT1	ALB/SAT - VISTA SCHEDULING RPCs
SDECRT2	ALB/SAT - VISTA SCHEDULING RPCs
SDECRTCF	Clean-up of Pending RTC orders with closed SDEC Appt Requests
SDECRTCF2	Cleanup of orphaned children of MRTC
SDECRTCRF	ALB/SAT - VISTA SCHEDULING RPCs *(New in SD*5.3*745)*
SDECSFGR	ALB/SAT - VISTA SCHEDULING RPCs
SDECSTNG	ALB/SAT - VISTA SCHEDULING RPCs *(Modified in SD*5.3*694)*
SDECSTP	VSE RESOURCE MANAGEMENT REPORT STOP CODES
SDECU	ALB/SAT - VISTA SCHEDULING RPCs
SDECU2	ALB/SAT - VISTA SCHEDULING RPCs
SDECU3	ALB/SAT – VISTA SCHEDULING RPCs
SDECU4	ALB/JSM - VISTA SCHEDULING RPCs
SDECUPDPATPREREG	ALB/BLB - PATIENT PRE-REGISTRATION
SDECUT1A	ALB/SAT - VISTA SCHEDULING RPCs
SDECUTL	ALB/SAT - VISTA SCHEDULING RPCs
SDECUTL1	ALB/SAT - VISTA SCHEDULING RPCs
SDECUTL2	ALB/SAT - VISTA SCHEDULING RPCs
SDECV	ALB/SAT - VISTA SCHEDULING RPCs
SDECVVC	ALB/WTC - VISTA SCHEDULING RPCS
SDECVVS	ALB/RJT SDEC AND VIDEO VISIT SERVICE (VVS) INTEGRATION
SDECVVSJSON	ALB/ANU - Get Patient, Provider and System Info to make VVS call
SDECWL	ALB/SAT - VISTA SCHEDULING RPCs
SDECWL1	ALB/SAT - VISTA SCHEDULING RPCs
SDECWL2	ALB/SAT - VISTA SCHEDULING RPCs
SDECWL3	ALB/SAT - VISTA SCHEDULING RPCs
SDECXML*	VSE RESOURCE MANAGEMENT REPORT XML DATA
SDECXML1	VSE RESOURCE MANAGEMENT REPORT XML DATA
SDECXML2	VSE RESOURCE MANAGEMENT REPORT XML DATA
SDECXML3	VSE RESOURCE MANAGEMENT REPORT XML DATA
SDECXML4	VSE RESOURCE MANAGEMENT REPORT XML DATA
SDECXML5	VSE RESOURCE MANAGEMENT REPORT XML DATA
SDECXUTL	VSE RESOURCE MANAGEMENT REPORT XML UTILITY
SDES	ALB/MGD - VISTA SCHEDULING RPCS
SDES2	VSE VERSION 2 RPCs

Routine	Description
SDES01C	VISTA SCHEDULING RPCS
SDES25	VISTA SCHEDULING RPCS
SDES30	VISTA SCHEDULING RPCS
SDESADDDELCGI	VISTA SCHEDULING RPCS
SDESADDRG	VISTA SCHEDULING RPCS - ROUTINE ADD RESOURCE GROUP
SDESAPPT	ALB/BLB - VISTA SCHEDULING RPCS
SDESAPPT3	GET APPT REQUESTS
SDESAPPT4	GET APPT REQUESTS
SDESAPPTDATA	ALB/TAW - VISTA Appointment data getter
SDESAPPTEDIT	EDIT SDEC APPOINTMENT FILE #409.84
SDESAPPTLETTERS	VISTA SCHEDULING RPCS - LETTER PRINT
SDESAPPTLETTERSV	VISTA SCHEDULING RPCS - VISTA LETTER PRINT
SDESAPPTREQ40984	VISTA SCHEDULING RPCS GET MISSION ELIGIBILITY
SDESAPPTUTIL	SDED APPOINTMENT UTILITIES
SDESAPTREQ44	APPOINTMENT REQUEST CREATE/UPDATE IN FILE 44
SDESAPTREQSET	APPOINTMENT REQUEST CREATE / UPDATE
SDESARCLOSE	VISTA SCHEDULING RPCS
SDESARGET	VISTA SCHEDULING RPCS
SDESARSETDESC	VISTA SCHEDULING
SDESBLKANDMOVE	BLOCK AND MOVE
SDESBLKANDMOVE1	BLOCK AND MOVE CONT.
SDESBUILDJSON	BUILD JSON RETURN FORMAT VISTA SCHEDULING RPCS
SDESCANCELAPPT	VISTA SCHEDULING RPCS
SDESCANCELAPPT44	CANCEL APPOINTMENT REQUEST IN FILE 44
SDESCANCELAPPTS	VISTA SCHEDULING RPCS
SDESCCAVAIL	VISTA SCHEDULING RPCS CANCEL CLINIC AVAILABILITY
SDESCCAVAIL2	VISTA SCHEDULING RPCS CANCEL CLINIC AVAILABILITY UTILITIES
SDESCHECKINSTEP	SDES RPC Clone of SDESCKNSTEP
SDESCHECKOUT	VISTA SCHEDULING RPCS
SDESCHKAPPTOVP	VISTA SCHEDULING RPCS - Routine to check for Appointment Overlaps
SDESCKNSTEP	VISTA SCHEDULING RPCS
SDESCLINDAILYSCH	SDES GET CLINIC DAILY SCHEDULE

Routine	Description
SDESCLINICAVAIL	VISTA SCHEDULING RPCS GET CLINIC AVAILABILITY
SDESCLINICDATA	ALB/TAW - VISTA Clinic data getter
SDESCLINICSET	CLINIC CREATE AND UPDATE
SDESCLINICSET2	CLINIC CREATE AND UPDATE
SDESCLINICUTIL	VISTA SCHEDULING CLINIC UTILITIES
SDESCLINPRECAN	ISTA SCHEDULING RPCS CANCEL CLINIC AVAILABILITY - PRE -CANCELLATION LIST
SDESCLNGRP	VISTA SCHEDULING RPCS - ROUTINE CLINIC GROUP LOOKUP
SDESCLNSEARCH	CLINIC NAME SEARCH AND LIMITED DATA RETURN
SDESCLNSETAVAIL	SET CLINIC AVAILABILITY
SDESCOMPPEN	VISTA SCHEDULING COMPENSATION AND PENSION RPCS
SDESCREATEAPPT	VISTA SCHEDULING RPCS
SDESCREATEAPPT 2	VISTA SCHEDULING RPCS
SDESCREATEAPPT 44	VISTA SCHEDULING RPCS
SDESCREATEAPPR EQ	VISTA SCHEDULING RPCS
SDESCRTAPPTWR AP	VISTA SCHEDULING RPCS
SDESCRTWALKIN	VISTA SCHEDULING WALKING RPC
SDESDISPRECALL	VISTA SCHEDULING RPCS
SDESEDITAPPTRE Q	VISTA SCHEDULING RPCS
SDESEDITAPPTRE Q2	VISTA SCHEDULING RPCS
SDESGETCLINAPP T	VISTA SCHEDULING READ CLINIC APPOINTMENT
SDESGETDEVICES	VISTA SCHEDULING RPCS - DEVICE RETRIEVAL
SDESGETRECALL	VISTA SCHEDULING RPCS
SDESGETREGA	Get registration info JSON format
SDESGETREGA1	Get registration info JSON format
SDESGETSTOPCD	VISTA SCHEDULING RPCS - SDES GET CLINIC STOPCD
SDESGETUD	VISTA SCHEDULING RPCS GET USER KEYS AND OPTIONS
SDESGETREQWRA PPR	VISTA SCHEDULING RPCS
SDESGETUDDUZ	VISTA SCHEDULING RPCS GET USER KEYS AND OPTIONS
SDESGETAPPTREQ	GET APPT REQ RPCS
SDESGETAPPTREQ 2	GET APPT REQ RPCS 2
SDESGETAPPTTYP E	SDES GET APPT TYPE RPC

Routine	Description
SDESGETAPPTWRAP	RPC WRAPPER FOR VIEWING AN APPOINTMENT
SDESGETAPPTWRAP2	RPC WRAPPER FOR VIEWING AN APPOINTMENT
SDESGETAPPTWRAP3	RPC WRAPPER FOR VIEWING AN APPOINTMENT CONTINUATION
SDESGETAPPTWRAP4	RPC WRAPPER FOR VIEWING AN APPOINTMENT
SDESGETAPPTWRAP5	RPC WRAPPER FOR VIEWING AN APPOINTMENT CONTINUATION
SDESGETAVAILSC	VISTA SCHEDULING AVAILABILITY BY STOP CODE
SDESGETCONDETAIL	SDES GET CONSULT DETAILS
SDESGETCONSULTS	VISTA SCHEDULING RPCS GET CONSULTS
SDESGETDIVISION	VISTA SCHEDULING RPCS
SDESGETLETTERS	VISTA SCHEDULING RPCS
SDESGETPATINQUIR	SDES GET PATIENT INQUIRY
SDESGETUD	VISTA SCHEDULING RPCS GET USER KEYS AND OPTIONS
SDESHASHCLIN	VISTA SCHEDULING RPCS HASH CLINIC
SDESINACTCLINIC	Inactivate Clinic in HOSPITAL LOCATION FILE 44
SDESINPUTVALUTL	VISTA SCHEDULING INPUT VALIDATION UTILITY
SDESJSON	VISTA SCHEDULING JSON UTILITIES
SDESLOC	VISTA SCHEDULING RPCS - USERS FOR HOSPITAL LOCATION
SDESMISSIONELG	VISTA SCHEDULING RPCS GET MISSION ELIGIBILITY
SDESNEEDSPREFS	SDES SPECIAL NEEDS PREFS
SDESPATFLAGS	PATIENT FLAGS RPC
SDESPATIENTDATA	ALB/TAW - VISTA Patient data getter
SDESPATIENTDATA2	VISTA Patient data version 2
SDESPATRPC	ALB/TAW - PATIENT RPCS
SDESPATSEARCH	SDES PATIENT SEARCH
SDESPRINTPATAPPT	SDES Print basic appointments
SDESPRIVUSRSRCH	VISTA SCHEDULING PRIVILEGED USER SEARCH RPC
SDESPROVSEARCH	Get Provider based on Search String
SDESRECPROVSRCH	VISTA SCHEDULING RECALL PROVIDER USER SEARCH RPC
SDESREACTVTCLIN	VISTA SCHEDULING REACTIVATE CLINIC RPC in HOSPITAL LOCATION FILE 44

Routine	Description
SDESRECCLINSRCH	VISTA SCHEDULING RECALL CLINIC SEARCH RPC
SDESREQAPPCREATE	VISTA SCHEDULING CREATE APPT REQ AND SCHEDULE APPT RPC
SDESRTNRG	VISTA SCHEDULING RPCS - ROUTINE SINGLE CLINIC GROUP RETURN
SDESRTVCLN	Get Clinic Info based on Clinic IEN
SDESRTVCLN2	Get Clinic Info based on Clinic IEN
SDESSEARCH	VISTA SCHEDULING RPCS - GIVEN SEARCH STRING, RETURN LISTS
SDESSEARCHRCLN	VISTA RPC SDES SEARCH RECALL CLINIC
SDESUNDOCHECKOUT	VISTA SCHEDULING RPCS - SDES UNDO CHECKOUT
SDESUPDRECREQ	CREATE A NEW ENTRY INTO THE RECALL REMINDERS
SDESUPDRECREQ2	VISTA SCHEDULING CREATE EDIT RECALL REQ RPC
SDESUTIL	SDES Utilities
SDESVALUTIL	VISTA SCHEDULING VALIDATION UTILITIES
SDM0	MAKE APPOINTMENT
SDM1A	SF/GFT,ALB/TMP - MAKE APPOINTMENT
SDMM1	ALB/GRR - MULTIPLE BOOKINGS
SDN	SF/GFT,ALB/LDB - RECORD NO SHOWS
SDNACT	ALB/TMP - INACTIVATE A CLINIC
SDNACT1	Inactivate a Clinic (CONTINUED)
SDREACT	ALB/TMP - REACTIVATE A CLINIC
SDROUT0	BSN/GRR,PC - ROUTING SLIPS BY CLINIC
SDRRCLR	10N20/MAH/JLS - Reminder Recall CLEAN UP
SDRRISRU	10N20/MAH; Recall Reminder Utilities
SDUNC	RESTORE CLINIC AVAILABILITY
SDWLPL	IOFO BAY PINES/DMR,ESW - WAIT LIST PICK LIST

* Extensible Markup Language (XML)

5. Exported Options

Table 3 lists exported options and their descriptions.

Table 3: Exported Options

Option Name	Description
Set up a Clinic [SDBUILD]	This option allows the user to create holidays, create/edit basic clinic information, create/change clinic availabilities.
CLINICAL SCHEDULING PROCEDURE CALLS [SDECRPC]	This option hosts RPCs in the SDEC namespace. Access to this option is required for use.

Option Name	Description
CLINICAL SCHEDULING PROCEDURE CALLS [SDESRPC]	This option hosts RPCs in the SDES namespace. CLINICAL SCHEDULING users must have access to this option in order to use CLINICAL SCHEDULING.

6. Mail Groups, Alerts, Bulletins, and Templates

Not applicable for this release.

7. Public Interfaces

The follow subsections include information on public interfaces that are called or made available by this software.

7.1. Integration Control Registrations (ICRs)

ICRs are maintained and stored in FORUM. VS ICRs have the prefix SDEC. Running a search on 'SDEC' will return results that include VS ICRs.

Table 4: ICRs

Category	Definition
Controlled Subscription	Describes attributes/functions that must be controlled in their use. The decision to restrict the ICR is based on the maturity of the custodian package. Typically, these ICRs are created by the requesting package based on their independent examination of the custodian package's features. For the ICR to be approved the custodian grants permission to other VistA packages to use the attributes/functions of the ICR; permission is granted on a one-by-one basis where each is based on a solicitation by the requesting package. An example is the extension of permission to allow a package (e.g., Spinal Cord Dysfunction) to define and update a component that is supported within the Health Summary package file structures.
Supported Reference	This applies where any VistA application may use the attributes/functions defined by the ICR (these are also called "Public"). An example is an ICR that describes a standard API such as DIE or VADPT. The package that creates/maintains the Supported Reference must ensure it is recorded as a Supported Reference in the ICR database. There is no need for other VistA packages to request an ICR to use these references; they are open to all by default.

7.2. APIs

The VS product is a thick client. As such, there are no APIs in use.

7.3. RPCs

Table 5 provides a list and brief description of the RPCs utilized by the VS product.

For more detailed information, see the Remote Procedure file (#8994) within any VistA environment. Searching for 'SDEC' within the Remote Procedure file will return the list of RPCs used by VS.

Table 5: RPCs

RPC NAME	DESCRIPTION
SDEC ACCGPTYG	Get access group types
SDEC ACCGROUP	Return active entries from the SDEC ACCESS GROUP file #409.822
SDEC ACCTYPE	Return active entries from the SDEC ACCESS TYPE file 409.825
SDEC ADDACCG	Access Group IEN that was added or edited
SDEC ADDACCTY	SDEC ACCESS TYPE IEN of the entry added or edited
SDEC ADDAGI	Add access group item
SDEC ADDRES	Add/Edit Resource
SDEC ADDRESU	Add Resource
SDEC ADDRG	Add/Edit Resource Group
SDEC ADDRGI	Adds RESOURCE ID to RESOURCE GROUP entry SDECIEN
SDEC APBLKALL	List of all appointments for all resources *(Deleted in SD*5.3*745)*
SDEC APBLKOV	Appointment Blocks Overlap *(Deleted in SD*5.3*745)*
SDEC APPADD	Add New Appointment
SDEC APPDEL	Cancel Appointment
SDEC APPIDGET	Get SDEC APPOINTMENT IEN for a given External ID
SDEC APPSDGET	Get appointment entries from SDEC APPOINTMENT file #409.84
SDEC APPSLOTS	Return global array of available appointment slots
SDEC APPT STATUS	Returns patient appointment status from the PATENT file #2
SDEC APPTEVLG	PATIENT ID pointer to PATIENT file #2
SDEC APPTLETR	Print Appointment Letter. Currently supports No-Show, Cancel by Patient and Cancel by Clinic
SDEC ARCLOSE	Remove a patient from the appointment requested by setting the STATUS to CLOSED and updating the DISPOSITION fields
SDEC ARDGET	Get values for the disposition field of the SDEC APPT REQUEST file #409.85
SDEC ARGET	Appointment Request GET
SDEC ARMRTGET	Pointer to SDEC APPT REQUEST file #409.85
SDEC ARMRTSET	Set MRTC CALC PREF DATES – clears the multiple and sets the new ones that are passed in
SDEC AROPEN	Set Appointment Request Open/Re-Open
SDEC ARPCSET	Set/update patients' contracts in SDEC APPT REQUEST file #409.85
SDEC ARSET	Appointment Request SET
SDEC AVADD	Create entry in SDEC ACCESS BLOCK
SDEC AVDEL	Cancel availability – Deletes Access Block
SDEC AVDELDT	Cancel availability in a date range

RPC NAME	DESCRIPTION
SDEC BOOKHLDY	Returns value of field 1918.5 (can book on holiday) for a clinic (file #44)
SDEC CANCKOUT	Cancel checkout appointment
SDEC CANCMT	Returns list of cancellation comments (hashtag, type and text) from the SDEC CANCELLATION COMMENT file (#409.88).
SDEC CANREAS	Return entries from the CANCELLATION REASONS file #409.2
SDEC CGET	Get active Countries form the COUNTRY CODE file #779.004
SDEC CHECKIN	Check in Appointment
SDEC CHECKOUT	Check out Appointment
SDEC CLINALL	Return the IEN and NAME for all entries in the SD WL CLINIC LOCATION file #409.32
SDEC CLINDIS	Return formatted text output of the Clinic Schedules Report between dates SDECBEG and SDECEND for each clinic in SDECCLST
SDEC CLINDISW	Return formatted text output of the Clinic Schedules Report between dates SDECBEG and SDECEND for each clinic in SDECCLST for Walk-ins only
SDEC CLINIC GROUP LOOKUP	Look up VSE Clinic Groups
SDEC CLINIC GROUP RETURN	Returns specific VSE Clinic Group
SDES CLINIC RSC SEARCH JSON	GIVEN A STRING, RETURNS MATCHING CLINIC IENS AND NAMES
SDEC CLINLET	Return record set of patient appointments
SDEC CLINLETW	Return record set of patient walk-in appointments
SDEC CLINSET	Return CLINIC SETUP PARAMETERS for clinics that are active in the HOSPITAL LOCATION file #44
SDEC CLINSTOP	Return entries from the CLINIC STOP file #40.7
SDEC CONTACT DISPLAY	Return zero node from SDEC CONTACT file #409.86 for display in the VSE vs GUI
SDEC CONTACT DISPLAY SINGLE	Returns a single Contact Attempt (CA) from the SDEC CONTACT (#409.86) file
SDEC CONTACT MULTI-DISPLAY	Return SDEC CONTACT (#409.86) for contact multiple
SDEC CONTACT NEW	Used to enter new contact entries into the SDEC CONTACT file #409.86
SDEC CONTACT SEQUENCE SINGLE	Returns the Internal Entry Number (IEN) of the newly created contact record in the SDEC CONTACT (#409.86) file
SDEC CONTACT STOP CODE	Return Stop Code and Credit Stop to VSE vs GUI
SDEC CONTACT UPDATE	Updates entries in the SDEC CONTACT file #409.86 when a new contact is added to a current entry
SDEC COPYAPPT	Copy appointments from HOSPITAL LOCATION entry SDEC44 to SDEC RESOURCE entry SDECRES. Returns count of records copied and error message
SDEC CPSTAT	Copy Appointment Status

RPC NAME	DESCRIPTION
SDEC CREATE WALKIN APPT JSON	Auto creates a request, creates walkin appointment, and checks in the appointment.
SDEC CRSCHED	Create Resource Appointment Schedule
SDEC CSLOTSCH	Resource ID pointer to SDEC RESOURCE file #409.831
SDEC CURFACG	Get current division/facility for given user
SDEC CVARAPPT	Return Boolean to represent that a clinic allows variable appointment length – RPC: 0 = Clinic does not allow; 1 = Clinic does allow
SDEC DELAG	Deletes entry having IEN SDECGRP from SDEC ACCESS GROUP file #409.822. Also deletes all entries in SDEC ACCESS GROUP TYPE file #409.825 that points to this group
SDEC DELAGI	Delete entry with the given Access Group and Access Type from the SDEC ACCESS GROUP TYPE file #409.825
SDEC DELRESGP	Deletes entry name SDECGRP from SDEC RESOURCE GROUP file #409.832
SDEC DELRGI	Deletes entry SDECIEN1 from entry SDECIEN in the SDEC RESOURCE GROUP file #409.832
SDEC EDIT PAT PRE-REGISTRATION	Updates patient pre-registration and associated files when a Vetlink Kiosk pre-register event occurs
SDEC EDITAPPT	Edit appointment (only 'note text' and 'appointment length' can be edited)
SDEC EHRPT	Raise patient selection event to HER
SDEC ELIG RETURN	Returns eligibility information form ELIGIBILITY file #8 and MAS ELIGIBILITY file #8.1 for the passed in IEN
SDEC ELIGIBILITY	Returns patient eligibility to the VSE vs GUI
SDEC EP CLASSIFICATION	Provide expanded entry patient classification information for display in the VS GUI
SDEC EP CPT	Provides procedures performed during a patient appointment to the VS GUI
SDEC EP DEMOGRAPHICS	Returns patient information to display using expanded entry
SDEC EP DIAGNOSIS	Returns patient diagnosis information to display using expanded entry
SDEC EP EVENT LOG	Returns event information to display using expanded entry (check-in, check-out, no-show/cancel)
SDEC EP PROVIDER	Returns patient appointment provider information to display using expanded entry
SDEC EP PT INFO	Returns patient information to display using expanded entry
SDEC EP STOP CODE	Returns stop code information to display using expanded entry
SDEC EP WAIT TIME	Returns wait time to display using expanded entry
SDEC ETHCMGET	Return the ID, Name and Abbreviation for each entry in the RACE AND ETHNICITY COLLECTION METHOD file #10.3
SDEC ETHGET	Return all active entries from the ETHNICITY file #10.2
SDEC FACLIST	Return a list of remote facilities for patient
SDEC FAPPTGET	Get future appointments for a given patient and date range from the APPOINTMENT multiple of the PATIENT file #2

RPC NAME	DESCRIPTION
SDEC GET APPT REQ BY IEN JSON	Get appointment request data for the Request Management (RM) grid for a specific IEN
SDEC GET ICN	Returns Patient IEN
SDEC GET INSTITUTION	Get the current Institution ID and Name.
SDEC GETFAC	Return the currently assigned facilities/divisions for a given user
SDEC GETVVSMAKEINFO JSON	Get patient info, default provider info, and system info needed to make a Video Visit Service (VVS) appointment in JSON format.
SDEC GET PAT CONSULT BY IEN	This Remote Procedure Call (RPC) returns a global array of output parameters for given Consult ID with a Computerized Patient Record System (CPRS) STATUS of "ACTIVE" or "PENDING"
SDEC GET PATIENT APPT REQ JSON	Get appointment request details. This is similar to SDEC ARGET but it only returns Appt request specific data in JSON format
SDEC GET PATIENT CONSULT JSON	Returns one ACTIVE or PENDING CONSULT for a patient in JSON format for the Internal Entry Number (IEN) passed in.
SDEC GET PATIENT DEMOG	This RPC is a "LITE" version of the RPC "SDEC PTLOOKRS-Patient info lookup" (in rtn SDEC28). This RPC (in rtn SDEC28L) finds up to "SDECC" number of patients that match the "SDECP" Patient Identification criteria, which can be any one of the following types of input: a)#DFN, b)DOB, c)SSN, d)First letter of LastName followed by L4SSN, e)PartialName or f)NULL for ALL
SDEC GET PATIENT RECALL BY IEN	GET entry from the RECALL REMINDERS file 403.5 for a given IEN
SDEC GET PATIENT RECALLS	GET entries from the RECALL REMINDERS file 403.5 for a given Patient
SDEC GET PATIENT RECALLS JSON	Returns all OPEN recalls associated with a patient in JSON format
SDEC GET RECALL BY IEN JSON	Get single entry from RECALL REMINDERS File 403.5 in JSON format for a given patient
SDEC GET RECALLRMV BY DFN JSON	Get LATEST single entry from RECALL REMINDERS REMOVED File #403.56 in JSON for a given patient
SDEC GET STATION ID JSON	RETURNS THE STATION ID FROM THE DUZ ARRAY
SDEC GETPRER	Returns all entries in the prerequisite multiple from the SDEC APPT REQUEST file #409.85
SDEC GETREGA	Return basic reg info/demographics for given patient
SDEC GETVVSMAKEINFO	Get patient info, default provider info, and system info needed to make a VVS appointment
SDEC GETWLIEN	Returns Wait List Entry IEN
SDEC HIDE	Returns a list of IENs and NAMEs of the clinics that are flagged to be hidden from the display in the scheduler
SDEC HLTHSUMM	Returns the text for a Health Summary Report
SDEC HOLIDAY	Returns data for the HOLIDAY file #40.5
SDEC HOSPLOC	Returns Hospital Locations from file #44

RPC NAME	DESCRIPTION
SDEC IMHERE	Returns a simple value to client. Used to establish continued existence of the client to the server; resets the server READ timeout
SDEC NETLOC	Get data from the NETWORK LOCATION file #2005.2
SDEC NEWPERS	Return entries from the NEW PERSON file #200 that are 'active' and have PROVIDER CLASS defined
SDEC NOAVAIL	Returns whether the clinic has availability defined
SDEC NOSHOPAT	Returns NO-SHOW data for the Patient
SDEC NOSHOW	Sets appointment no-show flag in SDEC APPOINTMENT file #409.84
SDEC OVBOOK	Check if overbook is allowed for given clinic and date
SDEC PATAPPTD	Return record set of patient appointments used in listing a patient's appointments and generating patient letters
SDEC PATAPPTH	Returns the patient appointment history
SDEC PCSGET	Gets clinics for a service/specialty (clinic stop)
SDEC PCST2GET	Get patient clinic status for a service/specialty (clinic stop) for a given time frame – has the patient been seen by the given service/specialty (clinic stop) in the past 24 months
SDEC PCSTGET	Get patient clinic status for a clinic stop for a given time frame – has the patient been seen by the given Clinic Stop code in the past 24 months
SDEC PREFGET	Returns patient preferences and special needs from the SDEC PREFERENCES AND SPECIAL NEEDS file #409.845
SDEC PREFGETV	Returns all valid preference text from SDEC PREFERENCES AND SPECIAL NEEDS file #409.845
SDEC PREFSET	Set value in the SDEC PREFRENCES AND SPECIAL NEEDS file #409.845
SDEC PRIV	Returns whether this user is in the PRIVELEGED USE multiple for the clinic
SDEC PROV	Return the Providers that are assigned to a clinic
SDEC PROVALL	Returns all providers for a given clinic form the HOSPITAL LOCATION file #44
SDEC PROVCLIN	Returns the providers that are assigned to a given clinic
SDEC PTINQ	Return the data from ORWPT PTINQ in datable format
SDEC PTLOOKRS	GET patients that match the partial lookup
SDEC PTSET	SET patient demographics
SDEC PWH	Return a list of entries form the HEALTH SUMMARY PWH TYPES file
SDEC RACEGET	Return the active entries in the RACE file #10
SDEC RAISEVNT	Return raise event
SDEC REBKLIST	Return patient appointments used in listing re-booked appointments
SDEC REBNEXT	GET – find next ACCESS BLOCK in resource SDECRES after SDECSTART
SDEC RECAPGET	GET entries from the RECALL REMINDERS APPT TYPE file #403.51
SDEC RECDSET	Delete an entry to the RECALL REMINDERS file #403.5
SDEC RECGET	GET entries from the RECALL REMINDERS file #403.5 for a given Patient and Recall Date range
SDEC RECPRGET	GET entries from the RECALL REMINDERS PROVIDERS file #403.54
SDEC RECSET	SET/EDIT an entry to the RECALL REMINDERS file #403.5

RPC NAME	DESCRIPTION
SDEC REP1GET	GET clinic data for report
SDEC REQGET	GET entries with an ACTIVITY of RECEIVED, but do have an ACTIVITY of SCHEDULED from the REQUEST/CONSULTATION file #123
SDEC RESCE	Returns all active clinics
SDEC RESGPUSR	Returns all ACTIVE GROUP/RESOURCE combinations to which a user has access based on entries in SDEC RESOURCE USER file #409.833
SDEC RESGRPUS	Returns all ACTIVE resource group names to which a user has access based on entries in the SDEC RESOURCE USER file #409.833
SDEC RESLETERS	Return RESOURCES and associated LETTERS. Used in generating rebook letters for a clinic
SDEC RESOURCE	Returns ALL RESOURCE names including inactive
SDEC RESUSER	Returns entries from the SDEC RESOURCE USER file #409.833
SDEC RSLETRF	Return formatted text output of the Resource's letter – either LETTER TEXT, NO SHOW LETTER or CLINIC
SDEC SCHUSR	Returns all users in NEW PERSON file #200 having the SDECZMENU and/or SDECZMGR keys
SDEC SEARCH VVS PROVIDERS	Search providers and get data needed to make VVS appointment
SDEC SEARCH VVS PROVIDERS JSON	Search providers and get data needed to make Video Visit Service (VVS) Appointment in JSON format.
SDEC SEARCHAV	Searches availability database for availability blocks between SDECSTRT and SDECEND for each of the resources in SDECRES
SDEC SETFAC	SET the current facility/division for a given user
SDEC SETRBOOK	SET rebook date into appointment
SDEC SPACEBAR	Update ^DISV with the most recent lookup value SDECVAL from file SDECDIC
SDEC SPACEBAR VVS PRO	Gets the video visit provider from the ^TMP(DUZ,"SDECPROIEN") that is stored from the GETPROINFO^SDECVVS TAG
SDEC SUMMGET	GET audit summary for a given date range *(Deleted in SD*5.3*745)*
SDEC SUMMGET2	GET audit summary for a given data range
SDEC SUSRINGO	GET scheduling user information
SDEC SVSPALL	Return the IEN and NAME for all entries in the SD WL SERVICE/SPECIALTY file #409.31
SDEC SYSSTAT	Return system status
SDEC TPBLKOV	Return type blocks overlap
SDEC UNDOCANA	UnCancel a Cancelled appointment *(Deleted in SD*5.3*745)*
SDEC UNREGEV	Unregister client's interest in SDECEVENT
SDEC VVC_APPT	If an appointment is for a VVC clinic, return the URL of the VVC Web app.
SDEC VVS DELETE ID	This RPC deletes the Video Visit ID from the SDEC APPOINTMENT (#409.84) file
SDEC VVS GET ID	This RPC returns the VVS ID
SDEC VVS SAVE ID	This RPC saves the VVS appointment ID in the SDEC APPOINTMENT (#409.84), field (#2)

RPC NAME	DESCRIPTION
SDEC WAITLIST	Collect wait list for a given resource
SDEC WLCLOSE	Remove a patient form the wait list by setting the STATUS to CLOSED and updating the DISPOSITION fields
SDEC WLGET	GET Waitlist
SDEC WLHIDE	GET waitlist entries in which the associated clinic's HIDE FROM DISPLAY IN VSE GUI? Field is YES
SDEC WLOPEN	Returns the Waitlist ID – pointer to SD WAIT LIST file #409.3
SDEC WLPCSET	SET update patient contacts in SD WAIT LIST file #409.3
SDEC WLSET	SET Waitlist
SDEC01 CLINICS	GET clinics for a given stop code or matching stop code for a given clinic
SDEC57 OBM	GET overbook status
SDECAPP GETYPE	GET appointment type for the given SDEC APPOINTMENT
SDECAR ARAPPT	GET appointment request for give SDEC APPOINTMENT ID
SDECAR ARMRTC	GET the number of MRTC appointments made for this request
SDECAR ARMULT	SET MULT APPTS MADE multiple in SDEC APPT REQUEST file #409.85
SDECAR AUDITGET	Pointer to SDEC APPT REQUEST file #409.85
SDECAR1 ARGUID	Returns Appointment Request data (same as SDEC ARGET) for a VA Online Scheduling (VAOS) request. Lookup is done on the GUID value
SDECAR3 AREDIT	SET the values for Appointment Type, Requested By, Provider, Comment, Fast/Non-Fasting, Length of Appt., Clinic, and Service Specialty to the appropriate file based on the request type. Request types are Appointment Request, Electronic Wait List, and Recall Reminders
SDECCAP CAN	SET AMIE C&P EXAM TRACKING entry as cancel
SDECCAP SET	SET entries to AMIE C&P EXAM TRACKING file #396.95 and update 2507 REQUEST file #396.3
SDECCPCANC	Copy Appointment Cancel
SDECDEM MARITAL	GET Marital status entries from the MARITAL STATUS file #11
SDECDEM RELIGION	GET religious preference entries from the RELIGION file #13
SDECDEM ZIPLINK	GET linked cities/state/etc. for a given zip code
SDECDERU	Delete Resource User from SDEC RESOURCE USER file #409.833
SDECDEV DEV	GET devises of the given type
SDECDEV DEVICE	GET a list of devices in the DEVICE file that are active printers
SDECDEV PRINT	Print patient letters
SDECDIS DISABIL	GET rated disabilities for the given patient
SDECIDX GETREC	Returns content from the ^XTMP("SDEC","IDX" global and serves as the default start-up list
SDECIDX RECCNT	Returns the number of entries in the ^XTMP("SDEC","IDX","COUNT") node
SDECLK LOCK	Attempts to lock a request record
SDECLK UNLOCK	Unlocks the request records that was locked using SDECLK LOCK RPC
SDECLOC PRIVLOC	Returns privileged user data for hospital locations

RPC NAME	DESCRIPTION
SDECLOC UPDPRIV	Supports updating the list of privileged users for a hospital location. Will purge existing entries and populate with the passed array
SDECRMG RECCNT	Returns the number of entries in the filter call in ^TMP("SDECIDX",$J,"COUNT") node
SDECRMG RMG	Returns data from the ^XTMP("SDECIDX",$J,"XREF" global. It uses the filter and sort arrays passed in to return data in the desired format. Returns a list of items by a key
SDECRMG2 URGENCY	GET valid urgency protocol values that are used in the URGENCY filed #5 of the REQUEST/CONSULTATION file #123
SDECRMGP GETRMGUP	Return the value set for the user preference of the Request Manager Grid Filter, Column Order and Sort Order
SDECRMGP PUTRMGUP	Store the user's preferences for the Request Manager Grid Filer, Column Order and Sort Order
SDECSTNG HELPLINK	Returns list of Help Link display names and associated URLs from the SDEC SETTINGS file #409.98. Entry 1 in file contains National Settings and Entry 2 in file contains Local Settings
SDECU4 PUTFONT	Save the VistA Scheduling letters default font size based on Entity provided
SDECWL AUDITGET	GET entries from VS AUDIT field of SD WAIT LIST file #409.3
SDES ADD CLNGRP ITEM	ADD NEW RESOURCE TO RESOURCE GROUP
SDES ADD PRIV USER	Add a privileged user to Hospital Location #44.
SDES ADDEDIT CLINIC GRP	ADD/EDIT CLINIC GROUP IN FILE #409.832
SDES CANCEL APPOINTMENT	This RPC will cancel appointments in file 409.84, file 44, and file 2. All appointments will be cancelled, or no appointments will be cancelled.
SDES CANCEL CLIN AVAILABILITY	Cancel Clinic Availability.
SDES CANCEL CLIN PRECAN LIST	Pre-cancellation appointment list for cancelling clinic availability.
SDES CHECKOUT	This RPC is used to check out a single appointment.
SDES CLINIC RSC SEARCH JSON	GIVEN A STRING, RETURNS MATCHING CLINIC IENS AND NAMES
SDES CREATE APPT BLK AND MOVE	APPOINTMENT BLOCK AND MOVE. THIS WILL MOVE AN APPOINTMENT TO A NEW CLINIC AND DATE/TIME, CANCEL THE ORIGINAL APPOINTMENT AND KEEP THE ORIGINAL SLOT BLOCKED SO IT CAN NOT BE REBOOKED.
SDES CREATE APPT REQ	CREATE A NEW APPOINTMENT REQUEST IN FILE 409.85
SDES CREATE APPOINTMENTS	This RPC creates an appointment entry in File 409.84, File 44, and File 2.
SDES CREATE CLIN AVAILABILITY	Set the clinic availability.
SDES CREATE CLINIC	THIS RPC IS USED TO ADD A NEW CLINIC TO THE HOSPITAL LOCATION FILE #44.
SDES CREATE RECALL REQ	CREATE A NEW ENTRY INTO THE RECALL REMINDERS (#403.5) FILE FOR PATIENT DFN.

RPC NAME	DESCRIPTION
SDES CREATE RECALL REQ 2	CREATE A NEW ENTRY INTO THE RECALL REMINDERS (#403.5) FILE FOR PATIENT DFN.
SDES CREATE VET REQ SCHED APPT	This RPC performs the following events: 1. Creates a NEW APPOINTMENT REQUEST in File #409.85, 2. Creates an appointment entry in File 409.84, File 44, and File 2, 3. Dispositions/Closes the appointment request in File #409.85
SDES CREATE WALKIN APPT	Creates appointment request, appointment, and does check-in for walk-in appointments.
SDES DELETE CLINIC GROUP	Delete Clinic/Resource Group from the SDEC RESOURCE GROUP FILE #409.832.
SDES DELETE CLNGRP ITEM	ADD A NEW RESOURCE TO RESOURCE GROUP.
SDES DELETE PRIV USER	Delete a Privileged User from Hospital Location #44.
SDES DELETE PRIV USERS	Deletes all Privileged users from Hospital Location #44.
SDES DISPOSITION APPT REQ	Dispositioning/closing an appointment request
SDES DISPOSITION RECALL REQ	DISPOSITION and DELETE an entry from the RECALL REMINDERS (#403.5) file. During the deletion of the entry, the new-style x-ref in 403.5 will trigger the move of the data from 403.5 to the RECALL REMINDERS REMOVED (#403.56) file.
SDES EDIT APPT REQ	UPDATE AN EXISTING ENTRY IN FILE 409.85 BASED ON THE IEN PASSED IN.
SDES EDIT CHECK-IN STEP	EDIT STATUS ENTRY IN 409.842
SDES EDIT CLINIC	THIS RPC IS USED TO EDIT AND EXISTING CLINIC TO THE HOSPITAL LOCATION FILE #44.
SDES EDIT CLINIC AVAILABILITY	CREATE NEW SCHEDULING PATTERN FOR A CLINIC THAT HAS AN EXISTING PATTERN.
SDES EDIT RECALL REQ	UPDATE AN EXISTING ENTRY IN RECALL REMINDERS (#403.5) FILE BASED ON THE IEN PASSED IN.
SDES EDIT RECALL REQ 2	UPDATE AN EXISTING ENTRY IN RECALL REMINDERS (#403.5) BASED ON THE IEN PASSED IN.
SDES GET ALL CLINIC HASHES	Returns back JSON return with SHA-1 hashes for all clinics.
SDES GET APPT BY IEN	Get a single appointment by IEN.
SDES GET APPT BY REQ/APPT TYP2	This RPC returns an appointment when given a request IEN, and an appointment type.
SDES GET APPT BY REQ/APPT TYPE	This RPC returns an appointment when given a request IEN, and an appointment type.
SDES GET APPT CHECK-IN STEP	Returns status if match is found in 409.843
SDES GET APPT CHECK-IN STEP 2	Returns status if match is found in 409.843.

RPC NAME	DESCRIPTION
SDES GET APPT CHECK-IN STEPS	GET ALL STATUSES ASSOCIATED WITH AN APPOINTMENT IEN
SDES GET APPT CHECK-IN STEPS 2	Get all statuses associated with an appointment IEN.
SDES GET APPT REQ BY IEN	Get a specific appointment request based on IEN (409.85)
SDES GET APPT REQ BY PAT ALL	Returns a list of appointment requests based on patient DFN regardless of status.
SDES GET APPT REQ BY PAT OPEN	Returns a list of appointment requests with a status of Open based on patient DFN.
SDES GET APPT REQ BY PATIENT	Returns a list of appointment requests based on patient DFN
SDES GET APPT REQ LIST BY DFN	This RPC will return all appointment requests, of all types (appt req, consult, recall) based on a patient DFN.
SDES GET APPT REQS BY IENS	RPC to allow up to 50 Appt Req IENs and returning Appt Req details.
SDES GET APPT TYPES	This RPC will return the types of appointment that are available.
SDES GET APPTS BY CLINIEN LIST	Accepts array of clinic IENs and returns appointments for today. Today is defined by the clinic's time zone.
SDES GET APPTS BY CLIN IEN	This RPC retrieves and returns appointments from SDEC APPOINTMENT File #409.84, HOSPITAL LOCATION File #44, and Appointment Multiple Patient File #2 for a given clinic within a given date range in JSON format.
SDES GET APPTS BY CLIN IEN 2	This RPC retrieves and returns appointments from SDEC APPOINTMENT File #409.84, HOSPITAL LOCATION File #44, and Appointment Multiple Patient File #2 for a given clinic within a given date range in JSON format.
SDES GET APPTS BY CLIN IEN 3	This RPC retrieves and returns appointments from SDEC APPOINTMENT File #409.84, HOSPITAL LOCATION File #44, and Appointment Multiple Patient File #2 for a given clinic within a given date range in JSON format.
SDES GET APPTS BY CLIN LIST2	Accepts array of clinic IENs and returns appointments for today.
SDES GET APPTS BY CLINIC	For a given clinic and date range, return general appointment data in JSON format
SDES GET APPTS BY PATIENT	Returns a list of appointments for a patient based on DFN
SDES GET APPTS BY PATIENT DFN	This RPC retrieves and returns appointments from SDEC APPOINTMENT File #409.84, HOSPITAL LOCATION File #44, and Appointment Multiple Patient File #2 for a given patient DFN within a given date range in JSON format.
SDES GET APPTS BY PATIENT DFN3	This RPC retrieves and returns appointments from SDEC APPOINTMENT File #409.84, HOSPITAL LOCATION File #44, and Appointment Multiple Patient File #2 for a given patient DFN within a given date range in JSON format.
SDES GET APPTS BY IEN	For a given appointment IEN, this RPC retrieves and returns appointments from SDEC APPOINTMENT File #409.84, HOSPITAL LOCATION File #44, and Appointment Multiple Patient File #2 in JSON format.

RPC NAME	DESCRIPTION
SDES GET APPTS BY RESOURCE	For a given clinic and date range, return general appointment data in JSON format
SDES GET AVAIL BY STOP CODE	This RPC will get clinic availability given a primary stop code, secondary stop codes, beginning date and ending date.
SDES GET CANCEL REASONS	Return entries from the CANCELLATION REASONS (#409.2) file.
SDES GET CHECK-IN STEP	GET STATUS ENTRY FROM 409.842
SDES GET CHECK-IN STEPS	GET ALL STATUS ENTRIES IN 409.842
SDES GET CLIN AVAILABILITY	This RPC returns available appointment slots within a given timeframe for a given clinic in JSON format.
SDES GET CLINIC INFO	RPC to Read clinic information from HOSPITAL LOCATION file (44)
SDES GET CLINIC INFO2	Read clinic information from HOSPITAL LOCATION file (44)
SDES GET CLINIC ORIGINAL AVAIL	This RPC will return an unmodified version of a clinic's appointment slots. Unlike, SDEC APPTSLOTS which decrements the availability to indicate that appointments have been made, this RPC will only return the original, unmodified copy of the days schedule.
SDES GET CLINIC STOPCD	Return entries from SDEC CLINIC STOP FILE #40.7
SDES GET CLINIC STORED HASH	Return clinic hash information for given clinic.
SDES GET COMP/PEN 2507	This RPC returns a list of 2507 Compensation and Pension requests for a patient.
SDES GET CONSULTS BY DFN	RPC returns list of Active or Pending Consults/Procedures by Patient DFN.
SDES GET CONSULTS BY IEN	Returns one ACTIVE or PENDING CONSULT for a patient in JSON format for the Internal Entry Value (IEN) passed in.
SDES GET DIVISION LIST	This RPC returns a list of division, given search the search text provided. The division list comes from the MEDICAL CENTER DIVISION file (#40.8).
SDES GET INSURANCE VERIFY LIST	Given a list of Patient Data File Numbers (DFNs), return a list of indicators.
SDES GET INSURANCE VERIFY REQ	DETERMINE IF A PATIENT'S INSURANCE NEEDS VERIFIED
SDES GET LETTER BY IEN	This RPC returns the full letter information from the LETTER file (#407.5), given the letter IEN.
SDES GET LETTER TYPES	This RPC returns a list of the letter types from the LETTER TYPE file (#407.6).
SDES GET LETTERS BY TYPE	This RPC will retrieve a list of letters from the LETTER file (#407.5), given the letter type (required), and text to match (optional).
SDES GET MISSION ACT ELIG	Create an RPC to calculate whether patient is mission act eligible based on their appt request IEN, PID, and selected appointment date.
SDES GET MISSION ACT ELIG FEDT	This RPC calculates whether patient is mission act eligible based on the file entry date of the appointment request, PID, selected appointment date, and clinic ID.

RPC NAME	DESCRIPTION
SDES GET PATIENT FLAGS	This RPC will return the national flags and fugitive/felon flag for a given patient.
SDES GET PATIENT REGISTRATION	Given a DFN returns Patient registration information.
SDES GET PATIENT REGISTRATION2	Given a DFN returns Patient registration information.
SDES GET RECALL BY IEN	Returns a single recall based on the IEN that is passed in.
SDES GET RECALLS BY DFN	Returns a list of recall requests based on patient DFN.
SDES GET SPEC NEEDS AND PREFS	This RPC returns the special needs and preferences associated with a patient.
SDES GET USER PROFILE BY DUZ	RPC to get User Profile by DUZ.
SDES GET USRPROFILE	SDES RPC to return IEN, user name, scheduling options and keys for VSE GUI user.
SDES GET VISTA DEVICES	Get list of vista devices.
SDES INACTIVATE/ZZ CLINIC	Create new RPC to INACTIVATE clinic from HOSPITAL LOCATION file (44) - single IEN
SDES PRINT APPT LETTER	Print single appointment letter.
SDES PRINT APPT LETTERS	Print list of appointment letters.

SDES PRINT APPT LETTER VISTA	Print single appointment letter.
	  Pre-appointment
	  Cancellation
	  No-show

SDES PRINT APPT LETTERS VISTA	Print list of appointment letters to a vista device.
SDES PRINT PATIENT APPTS	Print All of a given patients appointments for the a given time range, if time range not provided, will default to begin date of today (now) and then 90 days from begin date.
SDES REACTIVATE CLINIC	This RPC reactivate a clinic from HOSPITAL LOCATION File #44.
SDES READ CLINIC GROUP	READ A SINGLE CLINIC GROUP.
SDES READ PRIV USERS	Returns all privileged users from Hospital Location file #44.
SDES SEARCH CLINIC	GIVEN A STRING, RETURNS MATCHING CLINIC IENS AND NAMES.
SDES SEARCH CLINIC ATTRIBUTES	Given a whole or partial Clinic Name, Station Number (Opt) and Date (Opt) return the matching clinics and their key attributes.
SDES SEARCH CLINIC GRP	SDES RPC to SEARCH for CLINIC Groups (#409.832) using Search String.

RPC NAME	DESCRIPTION
SDES SEARCH PRIVILEGED USER	This RPC that allows users to search a person's name either partially or fully. The RPC will perform a search that matches the search criteria (3-35 characters), and then, retrieves and returns a list of ACTIVE users from the NEW PERSON File #200 regardless of if they are already a privileged user or not. Users that are DISUSER and TERMINATED will be skipped.
SDES SEARCH PROVIDERS	Retrieve list of active providers with a given string.
SDES SEARCH RECALL CLINICS	This RPC allows users to search the RECALL REMINDERS (#403.5) file based on a full or partial clinic name. The RPC will perform a search that matches the search criteria (3-35 characters), and then, retrieves and returns a list of recall related clinics and their associated recall reminders. (3-35 characters), and then, retrieves and returns a list of ACTIVE Recall Providers.
SDES SEARCH RECALL PROVIDERS	This RPC allows users to search a recall provider's name either partially or fully. The RPC will perform a search that matches the search criteria (3-35 characters), and then, retrieves and returns a list of ACTIVE Recall Providers.
SDES SET APPT CHECK-IN STEP	SET CHECK-IN STATUS FOR PATIENT IN 409.843
SDES SET APPT REQ CREATE	CREATE A NEW APPOINTMENT REQUEST IN FILE 409.85
SDES SET APPT REQ UPDATE	UPDATE AN EXISTING ENTRY IN FILE 409.85 BASED ON THE IEN PASSED IN
SDES SET CHECK-IN STEP	CREATE NEW STATUS IN FILE 409.842
SDES SET COMP/PEN AMIE TRKNG	This RPC allows the setting and updating of an AMIE Compensation and Pension tracking record.
SDES UPDATE CLINIC HASH	Update hash for one clinic.

* Data File Number (DFN)

7.4. Health Level 7 (HL7) Messaging

VistA Scheduling uses the current HL7 code.

7.5. Web Services

Not applicable to the VS product.

8. Standards and Conventions Exemptions

There are no Standards and Conventions Committee (SACC) exemptions for the VS Product.

8.1. Internal Relationships

Not applicable to the VS product.

8.2. Software-wide Variables

Not applicable to the VS product.

9. Security

All VistA users are required to observe VA rules of behavior regarding patient privacy and the security of patient information, VA computers, and VA networks.

9.1. Security Menus and Options

Not all VistA Scheduling GUI options are available to all users. Access is based upon the security keys associated with the user's account. Contact the Site Administrator to determine or change security keys. Table 6 lists the security menu options and their descriptions.

Table 6: Security Menu Options

Menu Option	Type	Description
SDEC SETTINGS REMOTE UPDATE	Server	Used to process changes to the SDEC SETTINGS File (#409.98).
SDEC HELP PANE EDIT (LOCAL)	Edit	Used to enter or edit hyperlinks displayed in the Help pane.
SDECRPC	Broker (Client/Server)	Hosts RPCs in the SDEC namespace. CLINICAL SCHEDULING users must have access to this option to use CLINICAL SCHEDULING.
SDBUILD	run routine	This option allows the user to create holidays, create/edit basic clinic information, create/change clinic availabilities.
SDESRPC	Broker (Client/Server)	Hosts RPCs in the SDES namespace. CLINICAL SCHEDULING users must have access to this option to use CLINICAL SCHEDULING.

9.2. Security Keys and Roles

The VS GUI uses VistA security keys to limit users' ability to change system setup parameters and patient information. Table 7 details the security keys in use by the VS product.

Table 7: Security Keys

Security Key	Description
SDEC HELP	Holders of this security key can access SDEC HELP PANE EDIT [LOCAL] VS GUI Help Pane Edit option to add/edit VS GUI Help Pane links.
SDECVIEW	Indicates view-only access. Overrides the SDECZMENU and SDECZMGR keys.
SDECZMENU	Provides users with access to the application.
SDECZMGR	Assigned to users who manage the overall scheduling application. Provides access to the Scheduling Management menu option on the System tab.

Security Key	Description
SDOB	Authorizes the user to overbook a clinic to the maximum allowed, as defined in clinic setup.
SDMOB	Authorizes the user to overbook a clinic over the maximum allowed, as defined in clinic setup.
SDECZ REQUEST	Holders of this security key can access the Mobile Request Icon, the Mobile Request List and utilize the buttons within the dialog box: Request Scheduled, Request Not Available, Close.

9.3. File Security

Table 8 details file security.

Table 8: File Security

File Number	GLOBAL	READ	WRITE	LAYGO	DATA DICTIONARY	DELETE
44	^SC(	D	D	D	@	@
403.5	^SD(403.5,			@	@	@
403.56	^SD(403.56,			@	@	@
409.2	^SD(409.2	D	@	@	@	@
409.3	^SDWL(409.3,		D	D	@	@
409.822	^SDEC(409.822,					
409.825	^SDEC(409.825,					
409.825	^SDEC(409.825,					
409.834	^SDEC(409.834,					
409.81	^SDEC(409.81,					
409.84	^SDEC(409.84,					
409.85	^SDEC(409.85,					
409.845	^SDEC(409.845,					
409.831	^SDEC(409.831,					
409.832	^SDEC(409.832,					
409.833	^SDEC(409.833,					
409.853	^SDEC(409.853,	@	@	@	@	@
409.86	^SDEC(409.86,	@	@	@	@	@
409.87	^SDEC(409.87,	@	@	@	@	@
409.88	^SDEC(409.88,		@	@	@	@
409.93	SDES ERROR CODES		@	@	@	@
409.97	^SDAUDIT(		@	@	@	@
409.98	^SDEC(409.98	@	@	@	@	@

9.4. Electronic Signatures

Not applicable to the VS product.

9.5. Secure Data Transmission

Not applicable to the VS product.

10. Archiving

There is neither archiving nor purging in this module.

11. Non-Standard Cross-References

Not applicable to the VS product.

12. Troubleshooting

During installation of the VS product for Initial Operating Capability (IOC) and while IOC testing is in progress, local site IT staff and Team Liberty are the points of contact.

Once the VS product is released nationally, end users should contact the VA Enterprise Service Desk (ESD) via the yourIT link on their desktop or by phone for assistance.

12.1. Special Instructions for Error Correction

There are no special instructions for error correction.

12.2. ESD and Organizational Contacts

During IOC, local site IT staff, and Team Liberty are the points of contact for assistance.

Once the VS product is released nationally, end users should contact the VA ESD via the yourIT link on their desktop or by phone for assistance.

A. Appendix: Acronyms and Abbreviations

Table 9 lists the acronyms and abbreviations used throughout this document, with their definition.

Table 9: Acronyms and Abbreviations

Acronym	Definition
API	Application Programming Interface
CA	Contact Attempt
CPRS	Computerized Patient Record System
DFN	Data File Number
ESD	Enterprise Service Desk
EWL	Electronic Wait List
GB	Gigabyte
GUI	Graphical User Interface
HL7	Health Level 7
ICR	Integration Control Registration
IEN	Internal Entry Number
IOC	Initial Operating Capability
IT	Information Technology
MS	Microsoft
OS	Operating System
PCC+	Patient Care Components Plus
RM Grid	Request Management Grid
RPC	Remote Procedure Call
SACC	Standards and Conventions Committee
URL	Uniform Resource Locator
VA	Department of Veterans Affairs
VAOS	VA Online Scheduling
VDL	VA Software Document Library
VistA	Veterans Health Information System and Technology Architecture
VS	VistA Scheduling
VSE	VistA Scheduling Enhancements
VVC	VA Video Connect
VVS	Video Visit Service
WYSIWYG	What You See is What You Get
XML	Extensible Markup Language